

1919.

Annual Report

AND

VITAL STATISTICS.

RURAL DISTRICT OF BUCKLOW.

BY

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Gongleton:

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The Rural District of Bucklow.

To the Chairman and Members of the Bucklow
Rural District Council:

Gentlemen,

*I am pleased to be able to present a Report for 1919, which
shows a satisfactory state of the health of your District.*

*The Report is more complete than any since 1916, owing to
the requirements of the Ministry of Health.*

I am, Gentlemen,

Your obedient Servant,

ARTHUR T. BLEASE.

April, 1920.

The Rural District of Bucklow.

ANNUAL REPORT OF MEDICAL OFFICER OF HEALTH FOR 1919.

PART I.

Nett Population at Census of 1911, 22,870.

Estimated Population { for Birth-rate 24.751.
1919. { for Death rate 23.761.

Number of Inhabited Houses, 4,971. } At Census of
Average Number of Persons per House, 4.4. } 1911.

Area of District in Acres, 57,642.

Birth Rate per 1,000 living, 12.8.

General Birth Rate (England and Wales) 18.5.

Death Rate per 1,000 living, 11.1.

General Death Rate (England and Wales) 13.8.

Deaths under one year in proportion to 1,000 Births, 75.

Deaths under one year in proportion to 1,000 Births through-
out England and Wales, 89.

The Total Number of Deaths was 264, of which 24 were
children under one year old, and 105 were persons of
over 65 years.

PART II.—TABLES.

TABLE I.

Vital Statistics of Whole District during 1919 and Previous Years.

YEAR.	Gross Population.	Nett Population estimated to Middle of each Year.	BIRTHS.			TOTAL DEATHS REGISTERED IN THE DISTRICT.		TRANSFER-ABLE DEATHS.		NETT DEATHS BELONGING TO THE DISTRICT.			
			Uncorrected Number.	Nett.		Number.	Rate.	of Non-residents registered in the District.	of Residents not registered in the District.	Under 1 Year of Age.		At all Ages.	
				Number.	Rate.					Number.	Rate per 1000 Nett Births.	Number.	Rate.
1911	22951	21979	417	...	19'0	262	...	38	34	46	110	258	11'7
1912	23262	22290	408	...	18'0	247	...	39	32	23	59	240	10'8
1913	23511	22600	374	...	16'5	258	...	76	30	34	91	212	9'7
1914	23609	22646	414	419	18'5	317	...	93	44	24	57	268	12'3
1915	23486	22462	358	360	16'0	324	...	104	49	39	108	269	12'4
1916	23749	22316	323	331	14'8	385	...	183	41	26	78	243	11'2
1917	23749	22316	324	327	14'6	382	...	200	43	22	67	225	10'4
1918	For birth-rate 22538												
	For death-rate 20219		320	325	14'4	476	...	192	49	20	62	284	14'0
1919	For birth-rate 24751												
	For death-rate 23761		316	318	12'8	419	...	205	50	24	75	264	11'1

TABLE II.

Diseases notified under Acts and Orders during 1919.

NOTIFIABLE DISEASE.	NUMBER OF CASES NOTIFIED.								TOTAL CASES NOTIFIED IN EACH LOCALITY.					TOTAL CASES REMOVED TO HOSPITAL.
	At all Ages.	At Ages—Years.							Altrincham.	Lymm.	Knutsford.	Willmslow.	Sale.	
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 45.	45 to 65.	65 and upwards.						
Acute Polio-encephalitis...	1	1	...	...	...	...	...	...	...	...	...	...	1	...
Small-pox ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pneumonia ...	48	5	8	10	22	2	1	...	18	11	6	4	9	...
Cholera—Plague ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria (including Membranous Croup)...	16	2	12	1	...	1	...	...	13	...	2	...	1	16
Erysipelas ...	7	...	...	1	1	2	3	...	2	...	2	1	2	...
Scarlet Fever ...	37	6	25	3	3	...	...	...	18	4	2	8	5	32
Typhus Fever ...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Enteric Fever ...	1	...	...	...	1	...	...	...	...	...	...	...	...	1
Relapsing Fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Continued Fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal Fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cerebro-Spinal Meningitis ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Polio-myelitis ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ophthalmia Neonatorum...	1	1	...	...	...	...	...	...	...	...	...	...	1	...
Pulmonary Tuberculosis...	24	...	4	7	11	2	...	...	11	2	2	1	8	...
Other forms of Tuberculosis	7	1	4	1	1	...	...	...	3	...	...	...	...	...
Measles ...	61	14	28	15	3	...	...	...	28	5	7	12	9	...
Malaria ...	8	...	...	2	6	...	...	...	1	...	2	3	2	...
Dysentery ...	1	...	...	...	1	...	...	...	...	...	1	...	...	...
Totals ...	212	2	29	81	40	49	7	4	91	22	25	31	40	49

TABLE III.

Deaths Registered during the Calendar Year 1919 classified by age and cause.

CAUSES OF DEATH.	Nett Deaths at the subjoined ages of "Residents" whether occurring within or without the District.									Total Deaths whether of "Residents" or "non-Residents" in Institutions in the District.
	All Ages.	Under 1 year.	1 & under 2 years.	2 & under 5 years.	5 & under 15 years.	15 & under 25 years.	25 & under 45 years.	45 & under 65 years.	65 & up- wards.	
All Causes { Certified ... Uncertified ..	264 0	...	...	...	...	...	...	...	...	199 0
Enteric Fever	...	...	...	...	...	...	...	...	...	...
Small-pox	...	...	...	...	...	...	...	...	...	...
Measles	...	...	...	...	...	...	...	...	...	...
Scarlet Fever	...	...	...	...	...	...	...	...	...	...
Whooping Cough	...	2	1	1	...	...	...	...	...	...
Diphtheria and Croup	...	3	...	...	...	...	...	...	...	...
Influenza	...	24	...	...	...	3	...	...	...	...
Erysipelas	...	...	...	...	...	3	4	7	8	1
Phthisis	...	...	...	...	...	...	...	...	...	...
(Pulmonary Tuberculosis)	18	...	...	1	...	5	7	5	1	176
Tuberculous Meningitis	1	1	...	...	...	...	...	...	...	...
Other Tuberculous Diseases	4	...	...	...	1	1	1	1	...	4
Cancer, Malignant Disease	24	...	...	...	...	...	1	10	13	1
Rheumatic Fever	...	...	...	...	...	...	...	...	...	...
Meningitis	...	...	...	...	...	...	...	...	...	...
Organic Heart Disease	29	...	...	...	...	1	1	11	16	2
Bronchitis	24	4	1	1	...	...	1	5	12	...
Pneumonia (all forms)	19	2	...	...	...	2	7	3	5	...
Other Diseases of Respira- tory Organs	3	...	...	2	...	1	...	...	...	...
Diarrhoea and Enteritis	2	...	...	1	...	...	...	...	1	...
Appendicitis and Typhlitis	2	...	...	...	1	...	1	...	...	...
Cirrhosis of Liver	1	...	...	...	...	...	...	...	1	...
Alcoholism	...	...	...	...	...	...	...	...	...	...
Nephritis & Bright's Disease	5	...	...	...	...	...	1	2	2	...
Puerperal Fever	...	...	...	...	...	...	...	...	...	...
Other Accidents and Dis- eases of Pregnancy and Parturition	1	...	...	...	...	...	1	...	...	...
Congenital Debility and Malformation, includ- ing Premature Birth	12	11	1	...	...	...	...	...	...	...
Violent Deaths, excluding Suicide	7	...	...	...	...	1	2	1	3	2
Suicide	1	...	...	...	...	...	1	...	...	...
Other Defined Diseases	78	1	...	1	...	1	8	18	49	14
Diseases ill-defined or un- known	4	4	...	...	...	...	...	...	...	...
Totals	264	24	3	6	8	16	39	64	104	199

TABLE IV.

Infant Mortality.

1919. Nett Deaths from stated causes at various Ages under 1 Year of Age.

CAUSE OF DEATH.		Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 4 Weeks.	4 Weeks and under 3 Months.	3 Months and under 6 Months.	6 Months and under 9 Months.	9 Months and under 12 Months.	Total Deaths under 1 Year.
All Causes.	{ Certified	...	...	...	...	...	...	...	...	...	24
	{ Uncertified	...	...	...	...	...	...	...	...	...	0
{ Small-pox	...	...	...	...	...	...	...	...	...	...	...
{ Chicken-pox	...	...	...	...	...	...	...	...	...	...	...
{ Measles	...	...	...	...	...	...	...	...	...	...	...
{ Scarlet Fever	...	...	...	...	...	...	...	...	...	...	...
{ Whooping Cough	...	...	...	...	...	...	...	1	...	...	1
{ Diphtheria and Croup	...	...	...	...	...	...	...	...	...	...	...
{ Erysipelas	...	...	...	...	...	...	...	...	...	...	...
{ Tuberculous Meningitis	...	...	...	...	...	...	...	...	1	...	1
{ Abdominal Tuberculosis	...	...	...	...	...	...	...	...	...	...	...
{ Other Tuberculous Diseases	...	...	...	...	...	...	...	...	...	...	...
{ Meningitis (not Tuberculous)	...	...	...	...	...	...	...	...	...	...	...
{ Convulsions	...	...	...	...	...	...	1	...	...	...	1
{ Laryngitis	...	...	...	...	...	...	...	...	...	...	...
{ Bronchitis	...	...	...	...	...	2	1	...	1	...	4
{ Pneumonia (all forms)	...	...	...	...	...	...	1	1	...	...	2
{ Diarrhoea	...	...	...	...	...	...	...	...	...	...	...
{ Enteritis	...	...	...	...	...	...	...	...	...	...	...
{ Gastritis	...	...	...	...	...	...	...	...	...	...	...
{ Syphilis	...	...	...	...	...	...	...	...	...	...	...
{ Rickets	...	...	...	...	...	...	...	...	...	...	...
{ Suffocation, overlying	...	...	...	...	...	...	...	...	...	...	...
{ Injury at Birth	...	...	...	...	...	...	...	...	...	...	...
{ Atelectasis	...	1	...	...	...	1	...	...	...	...	1
{ Congenital Malformations	...	1	1	...	...	2	1	...	...	...	3
{ Premature Birth	...	5	...	1	...	6	...	1	...	...	7
{ Atrophy, Debility, & Marasmus...	...	...	...	...	...	...	...	...	...	...	...
{ Other Causes	...	3	...	...	...	3	1	...	...	...	4
Totals		10	1	1	...	12	4	5	2	1	24

Nett Births registered { legitimate 300 Nett Deaths registered { legitimate infants 23
during the calendar year { illegitimate 18 during the calendar year of { illegitimate infants 1

Births 1919.

Rural part of Sub-District of	1st Quarter.				2nd Quarter.				3rd Quarter.				4th Quarter.				Total.			
	M.		Rate.		M.		Rate.		M.		Rate.		M.		Rate.		M.		Rate.	
	F.	Total.	F.	Total.	F.	Total.	F.	Total.	F.	Total.	F.	Total.	F.	Total.	F.	Total.	F.	Total.	F.	Total.
Altrincham	14	9	23	...	22	0	22	...	17	15	32	...	39	2	40	...	92	26	118	...
Lymm	5	5	10	...	6	3	9	...	4	6	10	..	6	6	12	...	21	20	41	...
Knutsford	3	4	7	...	9	7	16	...	6	6	12	...	10	5	15	...	28	22	50	...
Wilmslow	9	3	12	...	6	6	12	...	2	4	6	...	12	7	19	...	29	20	49	...
Sale	8	10	18	...	9	3	12	...	6	7	13	...	8	9	17	...	31	29	60	...
Total	39	31	70	11.5	52	18	70	11.3	35	38	73	11.7	75	28	103	16.6	201	117	318	12.8

Notifications of Infectious Diseases.

Year.	Rare Diseases.	Scarlatina.	Diphtheria.	Enteric Fever.	Puerperal Fever.	Erysipelas.	Phthisis.	Other Forms of Tuberculosis.	Measles.	TOTAL.
1890	—	26	5	5	1	2	—	—	—	39
1891	—	28	5	7	—	8	—	—	—	48
1892	—	68	8	18	2	11	—	—	—	107
1893	—	193	18	14	1	14	—	—	—	240
1894	1(a)	116	40	7	2	16	—	—	—	182
1895	2(a)	39	19	11	3	5	—	—	—	79
1896	—	31	9	19	1	5	—	—	—	65
1897	—	42	3	8	—	6	—	—	—	59
1898	—	19	11	6	—	9	—	—	—	45
1899	—	83	6	7	2	8	—	—	—	106
1900	—	79	8	6	—	3	—	—	—	96
1901	—	120	23	6	—	9	—	—	—	158
1902	—	46	37	6	4	9	—	—	—	102
1903	6(a)	52	25	7	—	7	—	—	—	97
1904	—	79	27	2	3	6	—	—	—	117
1905	—	58	31	2	3	14	—	—	—	108
1906	—	75	17	5	1	8	—	—	—	106
1907	—	53	9	4	1	5	—	—	—	72
1908	1(a)	65	25	2	2	10	—	—	—	105
1909	—	156	7	41	1	1	—	—	—	206
1910	—	94	14	6	1	8	—	—	—	123
1911	—	70	13	19	2	17	10	—	—	131
1912	—	28	6	2	1	5	32	—	—	74
1913	—	67	16	2	—	6	28	15	—	134
1914	3(b)	119	6	1	4	6	25	12	—	176
1915	3(c)	67	33	2	2	17	26	9	—	159
1916	4(d)	34	22	—	1	4	21	13	227	326
1917	—	16	9	1	1	7	27	14	293	368
1918	2(b)	29	18	—	3	9	22	4	413	500
1919	11(c)	37	16	1	—	7	24	7	61	164

(a) Small-pox. (b) ophthalmia neonatorum.

(c) 1 ophthalmia, 1 poliomyelitis, 1 cerebro-spinal fever.

(d) 3 ophthalmia, 1 cerebro-spinal fever.

(e) 1 acute polio-encephalitis.

1 ophthalmia neonatorum.

8 malaria.

1 dysentery.

Deaths from Special Diseases.

Year.	Rare Diseases.	Measles.	Scarlatina.	Diphtheria.	Whooping-cough.	Enteric Fever.	Diarrhoea.	Puerperal Fever.	Erysipelas.	Phthisis.	Other Forms of Tuberculosis.
1890	—	5	1	—	3	3	8	1	1	43	—
1891	—	1	1	1	5	4	6	—	—	40	—
1892	—	13	3	1	7	3	6	2	2	32	—
1893	2(a)	3	6	6	1	7	18	1	3	28	—
1894	—	1	4	5	8	1	5	1	3	29	—
1895	1(a)	—	2	5	3	4	2	3	1	22	—
1896	—	1	—	6	3	3	4	1	—	23	—
1897	—	16	1	2	1	3	15	—	—	26	—
1898	—	3	1	2	—	2	11	—	—	19	—
1899	—	—	3	1	7	3	16	2	1	29	—
1900	—	—	1	1	8	1	7	—	—	22	—
1901	—	1	2	5	8	2	10	—	1	15	—
1902	—	1	2	7	1	—	1	4	—	10	—
1903	2(a)	2	4	7	6	1	8	—	2	18	—
1904	—	1	2	2	7	1	8	1	1	17	—
1905	—	5	4	4	1	1	6	—	—	12	—
1906	—	4	—	4	—	—	11	1	—	15	—
1907	—	1	1	—	2	—	2	—	—	13	—
1908	—	2	1	6	7	—	5	—	—	10	—
1909	—	1	4	—	—	—	3	—	—	14	—
1910	—	3	—	1	1	1	1	1	—	9	—
1911	—	1	—	1	7	—	16	2	—	12	—
1912	—	5	—	—	—	—	4	—	—	15	—
1913	—	2	2	—	4	—	6	1	—	11	8
1914	—	—	1	—	1	—	—	2	1	16	7
1915	1(b)	2	3	3	3	—	—	1	—	13	6
1916	—	—	1	4	—	—	5	—	1	11	7
1917	—	—	—	—	2	—	2	—	1	8	3
1918	—	1	1	1	1	—	2	3	—	13	2
1919	1(c)	—	—	3	2	—	2	—	—	18	5

(a) *Small pox.*(b) *cerebro-spinal fever.*(c) *acute polio-encephalitis.*

Deaths 1919.

Rural part of Sub-District of	1st Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.		Total.	
	No.	Rate.	No.	Rate.	No.	Rate.	No.	Rate.	No.	Rate.
Altrincham	34	—	21	—	17	—	28	—	100	—
Lymm ...	11	—	6	—	6	—	7	—	30	—
Knutsford ...	14	—	12	—	3	—	11	—	40	—
Wilmslow .	13	—	5	—	5	—	7	—	30	—
Sale ...	21	—	13	—	12	—	18	—	64	--
Total ...	93	15·9	57	9·6	43	7·2	71	11·8	264	11·1

ANNUAL REPORT, 1919.

Factories and Workshops. Cow-keepers and Milk-sellers.

TOWNSHIP.	Mr. McKenzie.							Mr. Metcalfe.	
	Factories.	Workshops	Domestic Workshops	Total.	Inspections Made.	Defects Found.	Out-workers.	Cow-keepers.	Milk-sellers.
Agden ..	—	1	—	1	2	—	—	3	2
Ashley ...	—	4	1	5	4	—	—	26	15
Aston-by-Budworth	1	4	—	5	6	—	1	39	9
Baguley ...	—	8	1	9	9	—	—	18	2
Bexton ...	1	—	—	1	3	—	—	5	4
Bollington ...	—	2	—	2	1	—	—	10	6
Carrington ...	—	4	4	8	6	—	—	9	1
Dunham Massey ...	8	16	6	30	40	—	2	37	16
High Legh ...	1	4	3	8	10	—	—	44	12
Marshall ...	3	—	—	3	3	—	—	19	12
Mere ...	3	1	2	6	6	—	—	25	4
Millington ...	—	2	1	3	3	—	—	5	2
Mobberley ...	3	10	8	21	18	—	—	63	39
Northenden ...	5	28	32	65	50	—	5	13	10
Northern Etchells ...	—	4	3	7	10	—	—	13	17
Ollerton ...	—	2	1	3	4	—	—	12	9
Partington ..	6	5	3	14	4	1	—	9	3
Peover Inferior ..	1	3	—	4	2	—	—	7	3
Peover Superior ...	2	4	4	10	10	—	—	27	13
Pickmere ...	—	3	—	3	2	—	—	16	4
Plumbley ...	2	2	3	7	7	—	—	18	6
Ringway ...	1	1	—	2	2	—	—	27	9
Rostherne ...	—	—	5	5	—	—	—	8	4
Styal ...	1	5	2	8	6	—	—	17	12
Tabley Inferior ...	—	—	—	—	—	—	—	4	4
Tabley Superior ...	—	4	8	12	6	—	—	22	16
Tatton ...	—	—	1	1	—	—	—	1	—
Timperley ...	8	24	5	37	63	1	20	15	8
Toft ...	—	2	—	2	1	—	—	8	4
Warburton ...	1	3	1	5	3	—	—	8	2
	47	146	94	287	281	2	28	528	248

Cheshire County Council.

Tabular Statement of Inspector of Nuisances for the Year ended
December 31st, 1919.

The Rural District of Bucklow.

Nature of Inspections Made.	A Number	B Number of Notices served.		C Result of Service of Notices.			
		Statu- tory.	Inform- al.	Notices compli- ed with.	Remain- ing in hand	Prosecutions, Insti- tuted.	Pend- ing.
1. Dwelling Houses (general inspections) ...	411	119	30	86	63	...	...
2. Cellar Dwellings ..	...	...	...	...	...	...	...
3. Back-to-Back Houses ...	...	...	...	...	...	...	...
4. Tents, Vans, Sheds, &c. ...	31	...	2	2	...	...	...
5. Courts, Yards, Passages ..	1996	...	98	98	...	...	...
6. Privy-Middens, Earth or Pail Closets, Water C.	2670	28	190	204	...	...	...
7. Cesspools ...	204	30	47	37	40	...	...
8. House Drainage ...	717	41	26	27	40	...	...
9. Ditches, Watercourses, &c. ...	283	...	2	2	...	...	...
10. Offensive Accumulations ..	14	...	14	14	...	...	...
11. The keeping of Animals (P. H. A., 1875, S. 91 (3))	...	...	...	...	...	...	...
12. Offensive Trades ...	...	...	...	...	...	...	...
13. (a) Slaughterhouses (Public) ...	...	...	...	...	...	...	...
" (Private) ...	67	...	...	...	...	...	...
(b) Other Places where Food is produced or sold	120	...	...	...	...	...	...
14. Piggeries ...	176	...	...	...	...	...	...
15. (a) Dairies ...	510	Lime- washing	106	40	66	...	...
(b) Cowsheds ...			962	...	...	...	...
(c) Milkshops ...			...	...	...	...	...
16. (a) Factories ...	47	2	3	5	...	...	...
(b) Workshops ...	146	...	...	...	...	...	...
(c) Workplaces ...	94	...	...	...	...	...	...
(d) Outworkers' Premises ...	28	...	...	...	...	...	...
17. Bakehouses (Overground) ..	15	...	...	...	...	...	...
" (Underground) ...	...	...	...	...	...	...	...
18. Common Lodging Houses ...	...	...	...	...	...	...	...
19. Houses let in Lodgings ...	...	...	...	...	...	...	...
20. Smoke Observations ...	1	...	...	...	...	...	...
21. Canal Boats ...	57	3	3	6	...	...	...
22. Infectious Disease Inquiries and Re-visits	224	...	...	...	...	...	...
23. Miscellaneous ...	685	...	...	...	...	...	...
Totals ...	8496	223	1483	521	209	...	...

(Signed) R. MOORE METCALFE.

The Rural District of Bucklow.

PART III.

A.—Natural and Social Conditions of the District.

The Area remains unchanged, and comprises 30 Townships. Physical features, such as they are, have been described in previous Reports.

The Population.—The Registrar General's estimate appears on page 5, and has been used for the purpose of calculation of rates; my own appears later on in this Report and is not very different.

For classified description of Population, see Annual Report for 1914, which is equally applicable to-day.

B.—Sanitary Circumstances of the District.

Water Supply.—Three water certificates were granted for new houses when a wholesome supply of water had been provided under the provisions of the Public Health Water Act 1878, Section 6. The three houses were supplied with a piped service from the mains of the Manchester Corporation.

Water Analysis.—Six samples of water were submitted for analysis to the County Analyst during the year from the following Townships:—

Northenden	...	1 sample
Peover Superior	...	1 „
Ollerton	...	1 „
Rostherne	...	1 „
Mobberley	...	2 samples.

The results showed two as satisfactory supplies and four as unsatisfactory. Action was taken with regard to the four to obtain a satisfactory supply in each case. One of the two satisfactory samples was submitted to bacteriological examination and proved satisfactory from that point of view. The consideration of a public water supply for the Townships of Mobberley and Carrington has been proceeded with. So far as Mobberley is concerned the investigations carried out as to the possibility of obtaining an adequate and wholesome supply from the outcrop of two springs at Dairyhouse Farm shows the water to vary much in quantity and quality, and therefore such a supply, on account of insufficiency, cannot be recommended. It

is to be hoped, for the welfare of the inhabitants of this Township, that suitable arrangements can be made with the Stockport Corporation to obtain a bulk supply from their main at Warford, which would be adequate for all purposes, and is situate within 300 yards of the Township boundary.

Information has been computed, with a view to an extension of Water Main in Carrington from the existing Manchester Corporation Main near Partington Station. At the moment of writing this scheme is held up, pending a decision of the Cheshire County Council to purchase a large area of this Township for Small-holdings. The extension should be carried out at an early date.

Rivers and Streams.—Many inspections and inquiries were made as to the rivers in the District. Several samples were taken for examination, but none were submitted for analysis. Where pollutions were discovered from private premises these were dealt with immediately. When the pollutions were from Sewage Works the matter was referred to the Mersey and Irwell Joint Board. Mobberley Brook was polluted from the Wilmslow Sewage Works, and the cause was said to be due to the breakdown of the pumping apparatus. Duplicate pumping apparatus would perhaps (?) prevent further pollution.

The pollution of Sinderland Brook was found to be from the Altrincham Sewage Works, and proved to be done deliberately. Carefully concealed outlets had been constructed under the bed of the river and discharging in the centre. This had been going on for many years, and was found on the river being cleaned out by the Cheshire War Agricultural Committee's Staff. It is well that the guilt has been proved, but there does not appear to be a proper penalty for such conduct. Since the mystery was solved there has been great improvement shown.

Drainage and Sewerage.—Fourteen houses were completely re-drained during the year, and amendments carried out to 33 others. In all cases the water-test was applied, and the drains proved to be sound and tight before being covered in. Fifty-four lengths of drains were tested in this way. Ten privy-closets and four pail-closets were abolished and water-closets substituted. Dust-bins were provided to each house in lieu of the middens and ash-pits abolished.

With regard to the Sewage Schemes in the several Townships existing or prospective the report for 1919 is as follows:—

Dark Lane Outfall Works.—The new cinder filters have been in steady work since their completion in 1915 and no complaint of the effluent has been received during the year. Mr. Stowell, Chief Inspector of the Mersey and Irwell Joint Committee, has frequently visited the Woodcote Storm Overflow and asks that

a daily gauging be taken to establish the discharging capacity of the 18-inch pipe from this point to the Outfall Works. A daily gauging is now in operation.

Mobberley, Town Lane Tanks.—A difficulty has arisen at these works, owing to the admission of chemical waste from a neighbouring works, which for the present has been stopped. Plans have been prepared for additional Tank Space and enlarged Cinder Filters, which it is hoped will cope with all that is at present required at this outfall.

Northenden Sewage Works.—On September 18th, 1919, a sample of effluent was collected from these works and reported as unsatisfactory. From enquiries it appeared that the sewage had just been changed to fresh ground (which had been resting) and it was getting through too quickly, which accounted for the unsatisfactory sample. With regard to improvement at these works, proposed before the War, inquiries are now in progress as to what the present cost of same would be. It may, however, be necessary to review the whole scheme.

Dunham Massey.—The works here are satisfactory.

Baguley, Peover Superior, Styal, Northen Etchells, and Partington.—The position with regard to provision of sewage works in these Townships is exactly the same as reported in the Medical Officer's Annual Report for 1914. There is no more need for immediate action than there was then.

Vent Shafts.—Two six-inch heavy metal vent shafts are being fixed opposite St. Andrew's Schools, Deansgate Lane, and Orchard Place, Timperley. The adjacent open man-hole covers are to be sealed.

Sewer Extensions.—Short lengths of sewer extensions have been carried out at Albert Road, and Palatine Road, Northenden.

Sewer Flushing.—Periodical flushing of main lengths of sewers in the Townships of Northenden, Dunham Massey, and Timperley has been carried out. Several lengths of sewer in the Townships of Northenden, Dunham Massey, Timperley, and Northen Etchells have also received attention through temporary blockage.

Scavenging and Removal of Refuse.—The scavenging of Dunham Massey and Timperley has been carried out by the Council's own staff of workmen, and in the Townships of Northenden, Northen Etchells, Mobberley, and Styal by contract. The following is a return of the work done in each Township during the year :—

	Houses.	Dry Ashpits.	Dust Bins.	Middens.	Pails.	Loads Removed.
Timperley ...	15525	695	13858	366	1830	1206
Dunham Massey	10278	205	13106	124	34	777
Northenden ...	9298	239	8100	492	39	643
Mobberley ...	1389	145	28	44	1320	193
Northern Etchells	1570	—	1480	—	906	65
Styal ...	4172	49	457	48	3720	175
Total ...	42232	1333	37029	1074	7849	3059

The refuse is removed regularly in the various Townships. Pails and some of the dust-bins are cleared weekly, other dust-bins fortnightly, and ash-pits and middens about every six weeks.

The question of disposal of refuse in the Townships of Northenden, Dunham Massey, and Timperley has become a serious matter. Suitable tipping places are almost exhausted, and the question of other means of disposal has now to be considered. The present arrangements are both unsatisfactory and insanitary.

A special report on this matter will be prepared and presented to the Committee concerned as soon as possible.

Sanitary Inspections of District.—Table prepared by the County Medical Officer of Health, and filled up by Mr. Metcalfe, gives the figures required by Art. XX. (16) of the General Order.

The following particulars are given for easy reference.

Number of Dairies ...	...	...	242
„ Cowkeepers	...	...	528
„ Milkshops ...	...	...	6
„ Slaughter-houses	...	...	16
„ Butchers' Shops	...	...	9
„ Grocers' Shops	...	...	62
„ Fish, Fruiterers, and other Food Shops	...	...	13
„ Bakehouses	...	...	14
„ Factories ...	...	...	47
„ Workshops	...	...	146
„ Domestic Workshops	...	...	94
„ Outworkers	...	...	28
„ Dust-bins ...	...	...	1586
„ Dry Ash-pits	...	...	600
„ Middens ...	...	...	1000
„ New Houses built	...	...	7
„ Houses in District	...	...	5200

Estimated Population ...	...	24102
Average number of persons per house	...	4.6
Population at Census 1901	...	19850
Population at Census 1911	...	22870
Area of District in Acres (exclusive of area covered by water)	57642—544	57098

Special Premises and Occupations.—There are none.

Schools.—These have been closed when considered necessary by the School Medical Officer on account of infectious diseases, and afterwards disinfected by the Council's staff. The sanitary condition and water supply of several of the Schools are still unsatisfactory. I hope to have improvements in this respect carried out during 1920.

Food. (a). Milk Supply.—Inspections of dairies and cowsheds have been carried out. Very little has been done with regard to the carrying out of structural alterations. Particular attention was given to the cleanliness of vessels, cowsheds, cows, and attendants. I regret to state that the standard in this respect has fallen considerably when compared with our pre-war standard. The Regulations will be rigorously enforced, and any defaulters discovered will be at once reported to the Council for legal action to be taken. There are in the District 528 cow-keepers, 242 being milk-sellers, and 6 milk-sellers not being cow-keepers. One tuberculous cow was reported by the M.O.H. of Manchester, the cow and farm implicated was in Aston-by-Budworth. The cow was slaughtered and disposed of. No anthrax cases were reported during the year.

Food. (b). Other Foods.—187 visits were made to slaughter-houses, butchers' shops, fish-carts, grocers' shops, etc. The meat examined was found to be of fair quality. There were no seizures and no surrenders. The only complaints received were with regard to bacon.

Food. (c). Sale of Food and Drugs Act.—In the hands of the County Council.

Housing.—(XIX. (14). (k).)—*Housing and Town Planning Acts.*

Houses inspected under s. 17, Act of 1909	...	78
„ found unfit	...	1
Number of representations to Local Authority...	...	1
„ closing orders made	...	1
Houses where defects remedied without closing orders	...	18
Number of houses within limits of rent of s. 14	...	3120
„ notices served on such houses	...	41
„ closed	...	nil
„ back-to-back houses	...	nil
„ cellar dwellings	...	nil

The work under these Acts was proceeded with and 78 houses were inspected. One representation was made to the Council in respect of one house unfit for human habitation and a closing order issued. This was a very bad case. The cottage was a very old one and had been closed (voluntarily) for a number of years and had been allowed to be again occupied by the new owner. It was in a very dilapidated and dangerous state and the general conditions deplorable. Defects were remedied without closing order at 18 houses. Particular attention was paid to the Township of Carrington, and the inspection of this Township was almost completed. The cottages here are of a low standard, let at a cheap rent, and some of them are occupied by old persons rent free. From a health point of view there is room for much improvement, and several new cottages are required. The defects were those usually attached to this class of property and need not be detailed. The work will be pushed on with during 1920, and I hope to be able to show more satisfactory progress in the next Report. The estimated number of new houses required in this District and for each Township is as follows:—Ashley 4, Baguley 12, Carrington 14, Marthall 6, Ollerton 4, Peover Inferior and Superior 8, Ringway 12, Styal 12, Tabley Inferior and Superior 12, Northenden 25, Partington 25, Mobberley 24, Northen Etchells 12, Timperley and Dunham 250, and Warburton 2, making a total of 422 houses.

Factories and Workshops.—During the year the ordinary pre-war routine inspection has been resumed as per time table. After stringent revision the register contains:—

Factories	...	47
Workshops	...	146
Domestic Workshops		94
		287

The register also contains 28 outworkers, engaged principally in the manufacture of underclothing for Manchester Warehouses. The munition works at Plumbley has now practically closed down. Two notices were received from H.M. Chief Inspector of Factories, relating to (a) provision of fire escape staircases at a factory in Timperley, lately opened as a paper mill, and (b) the screening and approaches to sanitary conveniences (used by females) at the Partington Steel and Iron Works. The necessary work required has been carried out in both cases without notices being served. Several large works are being erected at the Broadheath end of the District, which is now in every sense an "industrial area." No cases of infectious disease have been reported from any registered premises.

Canal Boats.—*Annual Report for 1919.*—During the year 57 boats have been inspected in 25 visits. They were registered to carry 207 persons, and on inspection were found occupied by 109, viz. :—

Men	57
Women	46
Children (all under school age)...	6
	109

No infectious cases were reported or met with during the year. Three complaint notices were sent out for

- (1) No water vessel on board.
- (2) Markings indistinct.
- (3) No certificate on board.

The counterfoils in each case have been returned, certifying that the alterations necessary have been carried out.

The boats generally were found clean and in a satisfactory condition, with the exception of those named above.

New Buildings, 1919.—During the year 56 sets of plans were placed before the Health Committee for consideration and approval. These were comprised of New Houses, Garages, New Bank, Stores, Stables, Club for Comrades of the Great War. Two conversions of Outbuildings into Dwellings have been carried out owing to the great scarcity of houses. Forty-two new lengths of drains have been tested with water in connection with the new buildings and eight cases of footings have been examined and found satisfactory.

Licenses.—The following Licenses were issued during the year :—

Pleasure Boats	...	34 (Northenden)
"	...	70 (Pickmere)
"	...	11 (Warburton)
Motor Buses	...	6 (Northenden)
"	...	2 (Baguley)
Hackney Carriages	...	4
Petrol Licenses	...	16
Carbide Licenses	...	7

Public Lighting—Timperley and Northenden.—The Public Lamps lighted at Timperley have been increased to 50 per cent. over pre-war number, and now 94 are lighted. Most of the lamps on the main roads of the Township have been fitted with incandescent fittings. At Northenden a full scheme of lighting was requested and agreed to. Inverted burners have been fixed as a trial to lamps along Palatine Road and Church Road. By

special arrangement with the Manchester Corporation the central lamp opposite Church Inn is left burning all night. The lamp is fitted with ruby slips as a danger sign to traffic during the night.

C.—Sanitary Administration of the District.

(1.) *Staff*.—This is now less than in pre-war time, and at present consists of Mr. J. McD. McKenzie, Surveyor, and Mr. R. Moore Metcalfe, Inspector, with a boy clerk, who is expected to divide his time equally between the two offices.

(2.) *Hospitals*.—There is ample accommodation in the Hospitals of the Manchester Corporation, which is under agreement with the Bucklow Joint Hospital Board. We have nothing to do with Hospital Administration.

(3.) *Local or Adoptive Acts*.—There are no local Acts. The Adoptive Acts are the Infectious Diseases Prevention Act; the P.H.A.A.A. 1890, Part III.; the P.H.A.A.A. 1907, Sections 15, 16, 23, 52 to 75, whole District; 34 to 46 Dunham Massey, Northenden and Timperley only. The “administration” is part of the regular work of the officers.

Infectious Diseases.—For figures see Tables. Bacteriological investigations are made at the Manchester Public Health Laboratory. The work is most valuable and is excellently performed. Thirty-nine specimens were examined for us in 1919, twenty-eight in suspected cases of diphtheria, four typhoid, six tuberculosis, and one dysentery. The cases are visited on notification, and inquiries made as to origin of the infection. With few exceptions the cases are treated in the Manchester Isolation Hospital, under the Scheme of the Bucklow Joint Hospital Board, of which the Bucklow Rural District Council is one of the constituent authorities. This arrangement is an excellent one, and has worked satisfactorily throughout the year. There has been no small-pox, and no vaccinations have been performed by the Medical Officer of Health under the Public Health (Small-pox Prevention) Regulations, 1917.

Measles and Whooping Cough.—No deaths occurred from Measles and only two from Whooping Cough. Two visitors are employed for these diseases, but their activities have only recently been extended to Whooping Cough cases.

Tuberculosis.—For figures see Tables.

With a few exceptions (for special reasons) the cases are visited by me. There is no scheme of treatment except the County Council's. I think I notice improvement in the rate of admission to sanatoria. For advanced cases the beds retained by the Bucklow Joint Hospital Board in Baguley Sanatorium

are available, but only one Bucklow case was so admitted during 1919. Premises are disinfected after a death from this disease and on other occasions. Notification by medical practitioners is, I think, as prompt as is to be expected in a disease of this character, but as regards notification by School Medical Inspectors, either the Regulation is a dead letter or there have been no cases discovered in the Schools in this area during 1918 or 1919.

Owing to removals, unconfirmed diagnoses, notification of extremely chronic cases by Army Medical Boards, etc., it would serve no useful purpose to make out statistics of the termination or present states of notified cases of tuberculosis, but out of 49 cases of pulmonary tuberculosis notified during 1917 and 1918, I know 19 have already died. The only cases of apparent cures I know of amongst notified cases are a few, mostly in children, where the notification was sent on evidence which did not justify a certain diagnosis. In all I have seen in three years as Medical Officer of Health there has been nothing to change my opinion formed after experience in various kinds of medical practice that although Sanatorium treatment, like many other methods, has a place in a complete equipment for dealing with tuberculosis, there are few real cures of undoubted cases to be attributed to it, and more energy and money should be spent on preventive measures, even if this should entail less Sanatorium provision. A similar remark would apply with even greater force to the expenditure, financial and otherwise incurred in maintaining tuberculosis dispensaries and in following up cases, keeping records, and compiling statistics, of which surely there are enough already. I know this is the day of "Schemes," but I firmly believe that the Bucklow Council can save more individuals from death from tuberculosis by attention to the healthiness of the houses, workshops, offices, cowsheds, etc., in its District, and so diminishing the number of persons affected, than can be saved by any scheme of the County Council (or any other body) for dealing with persons already ill with the disease, however great the elaboration or paper efficiency of such scheme may be.

In all the cases of malaria and the one of dysentery, which appear in Table II., the disease was contracted abroad.

The notification in the case of acute polio-encephalitis (Table II.) was received from a consulting physician after the patient's death. Inquiries I made afterwards showed that there was an element of doubt in the diagnosis.

Maternity and Child Welfare.—This work has been carried on by the County Council since 1917. The recent Infantile Mortality Figures, that is the number of children out of every

thousand born, who die before reaching the age of one year, are as follows :—

1916	...	...	78
1917	...	...	67
1918	...	...	62
1919	...	...	75

In conclusion I record my appreciation of the work of Mr. McKenzie in the dual capacity of Surveyor and Inspector during the first three months of 1919, and as Surveyor during the remainder of the year, and of that of Mr. Metcalfe as Inspector since his liberation from the duties of Food Controller in April. To both my thanks are due for their unfailing courtesy to me and their equally unfailing readiness to carry out my wishes. My thanks are also due to them for willing assistance in certain portions of this report.

ARTHUR T. BLEASE,

M.B., Ch.B., M.R.C.S. Eng., L.R.C.P. Lond.

